



SEQUENCE LISTING

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GEDULIN, BRONISLAVA

<120> METHODS FOR GLUCAGON SUPPRESSION

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<151> 2000-01-10

<160> 239

<170> FastSEQ for Windows Version 4.0  
Microsoft WORD 97 SR-2

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<211> 39

<212> PRT

<213> Heloderma Horridum

<220>

<221> AMIDATION

<222> (39)

<223> Ser in position 39 is amidated

<400> 1

His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 2

<211> 39

<212> PRT

<213> Heloderma Suspectum

<220>

<221> AMIDATION

<222> (39)

<223> Ser in position 39 is amidated

<400> 2

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5					10					15	

Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Pro	Ser
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser
			35			

<210> 3

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<400> 3

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5					10					15	

Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly
			20					25					30

<210> 4

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (30)

<223> Gly in position 30 is amidated

<400> 4

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5					10					15	

Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly
			20					25					30

<210> 5

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Construct

<220>

<221> MOD\_RES

<222> (30)

<223> AMIDATION, Position 30 is Gly-NH2

<400> 5

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly  
20 25 30

<210> 6

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Construct

<220>

<221> MOD\_RES

<222> (28)

<223> AMIDATION, Position 28 is Asn-NH2

<400> 6

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 7

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Construct

<220>

<221> MOD\_RES

<222> (30)

<223> AMIDATION, Position 30 is Gly-NH2

<400> 7

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 8  
<211> 28  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> MOD\_RES  
<222> (28)  
<223> AMIDATION, Position 28 is Asn-NH2

<400> 8  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 9  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> MOD\_RES  
<222> (28)  
<223> AMIDATION, Position 28 is Asn-NH2

<400> 9  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu  
1 5 10 15

Ala Val Arg Leu Ala Ile Glu Phe Leu Lys Asn  
20 25

<210> 10  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<400> 10

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 11

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Construct

<220>

<221> MOD\_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 11

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 12

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Construct

<220>

<221> MOD\_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 12

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser

35

<210> 13  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<400> 13  
Tyr Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 14  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Tyr-NH2

<400> 14  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Tyr  
35

<210> 15  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

Construct

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<400> 15  
His Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu -  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 16  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> VARIANT  
<222> (6)  
<223> Xaa is naphthylalanine

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<400> 16  
His Gly Glu Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 17  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> MOD\_RES

<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<400> 17

His Gly Glu Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 18

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Construct

<220>

<221> MOD\_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 18

His Gly Glu Gly Thr Phe Ser Thr Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 19

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Construct

<220>

<221> MOD\_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 19

His Gly Glu Gly Thr Phe Thr Thr Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30



Ser Gly Ala Pro Pro Pro Ser  
35

<210> 20  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<400> 20  
His Gly Glu Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 21  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<220>  
<221> VARIANT  
<222> (10)  
<223> Xaa is pentylglycine

<400> 21  
His Gly Glu Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 22  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<220>  
<221> VARIANT  
<222> (10)  
<223> Xaa is pentylglycine

<400> 22  
His Gly Glu Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 23  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<220>  
<221> VARIANT  
<222> (14)  
<223> Xaa is pentylglycine

<400> 23  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 24  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> VARIANT  
<222> (14)  
<223> Xaa is pentylglycine

<400> 24  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 25  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Postion 39 is Ser-NH2

<220>  
<221> VARIANT  
<222> (22)  
<223> Xaa is naphthylalanine

<400> 25  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 26  
<211> 39  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Construct

<220>

<221> MOD\_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 26

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5					10					15	

Glu	Ala	Val	Arg	Leu	Phe	Val	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Pro	Ser
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser
						35

<210> 27

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Construct

<220>

<221> MOD\_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 27

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10					15	

Glu	Ala	Val	Arg	Leu	Phe	Val	Glu	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser
						35

<210> 28

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Construct

<220>

<221> MOD\_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 28

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Val Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 29

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Construct

<220>

<221> VARIANT

<222> (23)

<223> Xaa at position 23 is tertiary-butylglycine

<220>

<221> MOD\_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 29

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Xaa Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 30

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Construct

<220>

<221> MOD\_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 30

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu

1

5

10

15

Glu Ala Val Arg Leu Phe Ile Asp Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

&lt;210&gt; 31

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Construct

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (39)

&lt;223&gt; AMIDATION, Position 39 is Ser-NH2

&lt;400&gt; 31

His Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

&lt;210&gt; 32

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Construct

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (31)

&lt;223&gt; Xaa at position 31 is thioproline

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (36)..(38)

&lt;223&gt; Xaa at positions 36,37 and 38 is thioproline

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (39)

&lt;223&gt; AMIDATION, Position 39 is Ser-NH2

&lt;400&gt; 32

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser  
35

<210> 33  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> VARIANT  
<222> (36)..(38)  
<223> Xaa at positions 36, 37, and 38 is thioproline

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<400> 33  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser  
35

<210> 34  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> VARIANT  
<222> (31)  
<223> Xaa at position 31 is homoproline

<220>  
<221> VARIANT  
<222> (36)..(38)  
<223> Xaa at positions 36, 37, and 38 is homoproline

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<400> 34  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
20 25 30  
Ser Gly Ala Xaa Xaa Xaa Ser  
35

<210> 35  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> VARIANT  
<222> (36)..(38)  
<223> Xaa at positions 36, 37, and 38 is homoproline.

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<400> 35  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Xaa Xaa Xaa Ser  
35

<210> 36  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> VARIANT  
<222> (31)  
<223> Xaa at position 31 is thioproline



<220>  
 <221> VARIANT  
 <222> (36)..(38)  
 <223> Xaa at positions 36,37, and 38 is thioproline

<220>  
 <221> MOD\_RES  
 <222> (39)  
 <223> AMIDATION, Position 39 is Ser-NH2

<400> 36  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Xaa Ser  
 20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser  
 35

<210> 37  
 <211> 39  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Construct

<220>  
 <221> VARIANT  
 <222> (31)  
 <223> Xaa at position 31 is homoproline

<220>  
 <221> VARIANT  
 <222> (36)..(38)  
 <223> Xaa at positions 36,37, and 38 is homoproline

<220>  
 <221> MOD\_RES  
 <222> (39)  
 <223> AMIDATION, Position 39 is Ser-NH2

<400> 37  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Xaa Ser  
 20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser  
 35

<210> 38  
 <211> 39

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Construct

<220>  
<221> VARIANT  
<222> (31)  
<223> Xaa at position 31 is N-methylalanine

<220>  
<221> VARIANT  
<222> (36)..(38)  
<223> Xaa at positions 36, 37 and 38 is N-methylalanine

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<400> 38  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser  
35

<210> 39  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Construct

<220>  
<221> VARIANT  
<222> (36)..(38)  
<223> Xaa at positions 36, 37, and 38 is N-methylalanine

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<400> 39  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser  
35

<210> 40  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> VARIANT  
<222> (31)  
<223> Xaa at position 31 is N-methylalanine

<220>  
<221> VARIANT  
<222> (36)..(38)  
<223> Xaa at positions 36, 37, and 38 is N-methylalanine

<220>  
<221> MOD\_RES  
<222> (39)  
<223> AMIDATION, Position 39 is Ser-NH2

<400> 40  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Xaa Ser  
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser  
35

<210> 41  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> VARIANT  
<222> (1)  
<223> Xaa at position 1 is His, Arg or Tyr

<220>  
<221> VARIANT  
<222> (2)  
<223> Xaa at position 2 is Ser, Gly Ala, or Thr

<220>  
 <221> VARIANT  
 <222> (3)  
 <223> Xaa at position 3 is Asp or Glu

<220>  
 <221> VARIANT  
 <222> (5)  
 <223> Xaa at position 5 is Ala or Thr

<220>  
 <221> VARIANT  
 <222> (6)  
 <223> Xaa at position 6 is Ala, Phe, Tyr or  
 naphthylalanine

<220>  
 <221> VARIANT  
 <222> (7)  
 <223> Xaa at position 7 is Thr or Ser

<220>  
 <221> VARIANT  
 <222> (8)  
 <223> Xaa at position 8 is Ala, Ser or Thr

<220>  
 <221> VARIANT  
 <222> (9)  
 <223> Xaa at position 9 is Asp or Glu

<220>  
 <221> VARIANT  
 <222> (10)  
 <223> Xaa at position 10 is Ala, Leu, Ile, Val,  
 pentylglycine, or Met

<220>  
 <221> VARIANT  
 <222> (11)  
 <223> Xaa at position 11 is Ala or Ser

<220>  
 <221> VARIANT  
 <222> (12)  
 <223> Xaa at position 12 is Ala or Lys

<220>  
 <221> VARIANT  
 <222> (13)  
 <223> Xaa at position 13 is Ala or Gln

<220>  
 <221> VARIANT  
 <222> (14)  
 <223> Xaa at position 14 is Ala, Leu, Ile,  
 pentylglycine, Val or Met

<220>  
 <221> VARIANT  
 <222> (15)  
 <223> Xaa at position 15 is Ala or Glu

<220>  
 <221> VARIANT  
 <222> (16)..(17)  
 <223> Xaa at position 16 and 17 is Ala or Glu

<220>  
 <221> VARIANT  
 <222> (19)  
 <223> Xaa at position 19 is Ala or Val

<220>  
 <221> VARIANT  
 <222> (20)  
 <223> Xaa at position 20 is Ala or Arg

<220>  
 <221> VARIANT  
 <222> (21)  
 <223> Xaa at position 21 is Ala or Leu

<220>  
 <221> VARIANT  
 <222> (22)  
 <223> Xaa at position 22 is Ala, Phe, Tyr, or  
 naphthylalanine

<220>  
 <221> VARIANT  
 <222> (23)  
 <223> Xaa at position 23 is Ile, Val, Leu,  
 pentylglycine, tert-butylglycine, or Met

<220>  
 <221> VARIANT  
 <222> (24)  
 <223> Xaa at position 24 is Ala, Glu, or Asp

<220>  
 <221> VARIANT  
 <222> (25)  
 <223> Xaa at position 25 is Ala, Trp, Phe, Tyr or  
 naphthylalanine

<220>  
 <221> VARIANT  
 <222> (26)  
 <223> Xaa at position 26 is Ala or Leu

<220>  
 <221> VARIANT  
 <222> (27)

<223> Xaa at position 27 is Ala or Lys

<220>

<221> VARIANT

<222> (28)

<223> Xaa at position 28 is Ala or Asn

<220>

<221> VARIANT

<222> (29)

<223> Xaa at position 29 is OH, NH<sub>2</sub>, Gly-OH, Gly-NH<sub>2</sub>,  
Gly-Gly-OH, Gly-Gly-NH<sub>2</sub> and further as in the  
specification

<400> 41

Xaa	Xaa	Xaa	Gly	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
1				5				10							15	

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				20				25								

<210> 42

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Construct

<220>

<221> VARIANT

<222> (1)

<223> Xaa at position 1 is His, Arg, Tyr, Ala,  
norvaline, Val, or norleucine

<220>

<221> VARIANT

<222> (2)

<223> Xaa at position 2 is Ser, Gly, Ala, or Thr

<220>

<221> VARIANT

<222> (3)

<223> Xaa at position 3 is Ala, Asp, or Glu

<220>

<221> VARIANT

<222> (4)

<223> Xaa at position 4 is Ala, norvaline, Val,  
norleucine or Gly

<220>

<221> VARIANT

<222> (5)

<223> Xaa at position 5 is Ala or Thr

<220>  
<221> VARIANT  
<222> (6)  
<223> Xaa at position 6 is Phe, Tyr, or naphthylalanine

<220>  
<221> VARIANT  
<222> (7)  
<223> Xaa at position 7 is Thr or Ser

<220>  
<221> VARIANT  
<222> (8)  
<223> Xaa at position 8 is Ala, Ser, or Thr

<220>  
<221> VARIANT  
<222> (9)  
<223> Xaa at position 9 is Ala, norvaline, norleucine,  
Asp or Glu

<220>  
<221> VARIANT  
<222> (10)  
<223> Xaa at position 10 is Ala, Leu, Ile, Val,  
pentylglycine, or Met

<220>  
<221> VARIANT  
<222> (11)  
<223> Xaa at position 11 is Ala or Ser

<220>  
<221> VARIANT  
<222> (12)  
<223> Xaa at position 12 is Ala or Lys

<220>  
<221> VARIANT  
<222> (13)  
<223> Xaa at position 13 is Ala or Gln

<220>  
<221> VARIANT  
<222> (14)  
<223> Xaa at position 14 is Ala, Leu, Ile,  
pentylglycine, Val or Met

<220>  
<221> VARIANT  
<222> (15)..(17)  
<223> Xaa at positions 15, 16, and 17 is Ala or Glu

<220>  
<221> VARIANT  
<222> (19)

<223> Xaa at position 19 is Ala or Val  
  
 <220>  
 <221> VARIANT  
 <222> (20)  
 <223> Xaa at position 20 is Ala or Arg  
  
 <220>  
 <221> VARIANT  
 <222> (21)  
 <223> Xaa at position 21 is Ala or Leu  
  
 <220>  
 <221> VARIANT  
 <222> (22)  
 <223> Xaa at position 22 is Phe, Tyr or naphthylalanine  
  
 <220>  
 <221> VARIANT  
 <222> (23)  
 <223> Xaa at position 23 is Ile, Val, Leu,  
           pentyglycine, tert-butylglycine or Met  
  
 <220>  
 <221> VARIANT  
 <222> (24)  
 <223> Xaa at position 24 is Ala, Glu or Asp  
  
 <220>  
 <221> VARIANT  
 <222> (25)  
 <223> Xaa at position 25 is Ala, Trp, Phe, Tyr or  
           naphthylalanine  
  
 <220>  
 <221> VARIANT  
 <222> (26)  
 <223> Xaa at position 26 is Ala or Leu  
  
 <220>  
 <221> VARIANT  
 <222> (27)  
 <223> Xaa at position 27 is Ala or Lys  
  
 <220>  
 <221> VARIANT  
 <222> (28)  
 <223> Xaa at position 28 is Ala or Asn  
  
 <220>  
 <221> VARIANT  
 <222> (29)  
 <223> Xaa at position 29 is OH, NH<sub>2</sub>, Gly-OH, Gly-NH<sub>2</sub>,  
           Gly-Gly-OH, Gly-Gly-NH<sub>2</sub> and further as indicated  
           in the specification  
  
 <400> 42



Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
20 25

<210> 43  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Construct

<220>  
<221> VARIANT  
<222> (1)  
<223> Xaa at position 1 is His or Arg

<220>  
<221> VARIANT  
<222> (2)  
<223> Xaa at position 2 is Gly or Ala

<220>  
<221> VARIANT  
<222> (3)  
<223> Xaa at position 3 is Asp or Glu

<220>  
<221> VARIANT  
<222> (5)  
<223> Xaa at position 5 is Ala or Thr

<220>  
<221> VARIANT  
<222> (6)  
<223> Xaa at position 6 is Ala, Phe, or naphthylalanine

<220>  
<221> VARIANT  
<222> (7)  
<223> Xaa at position 7 is Ser, or Thr

<220>  
<221> VARIANT  
<222> (8)  
<223> Xaa at position 8 is Ala, Ser, or Thr

<220>  
<221> VARIANT  
<222> (9)  
<223> Xaa at position 9 is Asp or Glu

<220>  
<221> VARIANT

<222> (10)  
<223> Xaa at position 10 is Ala, Leu, or pentylglycine

<220>  
<221> VARIANT  
<222> (11)  
<223> Xaa at position 11 is Ala or Ser

<220>  
<221> VARIANT  
<222> (12)  
<223> Xaa at position 12 is Ala or Lys

<220>  
<221> VARIANT  
<222> (13)  
<223> Xaa at position 13 Ala or Gln

<220>  
<221> VARIANT  
<222> (14)  
<223> Xaa at position 14 is Ala, Leu or pentylglycine

<220>  
<221> VARIANT  
<222> (15)..(17)  
<223> Xaa at positions 15, 16, and 17 is Ala or Glu

<220>  
<221> VARIANT  
<222> (19)  
<223> Xaa at position 19 is Ala or Val

<220>  
<221> VARIANT  
<222> (20)  
<223> Xaa at position 20 is Ala or Arg

<220>  
<221> VARIANT  
<222> (21)  
<223> Xaa at position 21 is Ala or Leu

<220>  
<221> VARIANT  
<222> (22)  
<223> Xaa at position 22 is Phe or naphthylalanine

<220>  
<221> VARIANT  
<222> (23)  
<223> Xaa at position 23 is Ile, Val or  
tert-butylglycine

<220>  
<221> VARIANT  
<222> (24)

<223> Xaa at position 24 is Ala, Glu or Asp

<220>

<221> VARIANT

<222> (25)

<223> Xaa at position 25 is Ala, Trp or Phe

<220>

<221> VARIANT

<222> (26)

<223> Xaa at position 26 is Ala or Leu

<220>

<221> VARIANT

<222> (27)

<223> Xaa at position is Ala or Lys

<220>

<221> VARIANT

<222> (28)

<223> Xaa at position 28 is Ala or Asn

<220>

<221> VARIANT

<222> (29)

<223> Xaa at position 29 is -OH, -NH<sub>2</sub>, Gly-OH, Gly-NH<sub>2</sub>,  
Gly-Gly-OH, Gly-Gly-NH<sub>2</sub>, and further as indicated  
in the specification

<400> 43

Xaa	Xaa	Xaa	Gly	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
1				5				10						15	

Xaa	Ala	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			20					25							

<210> 44

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Construct

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 is His or Ala

<220>

<221> VARIANT

<222> (2)

<223> Xaa in position 2 is Gly or Ala

<220>

<221> VARIANT  
 <222> (3)  
 <223> Xaa in position 3 is Ala, Asp or Glu  
  
 <220>  
 <221> VARIANT  
 <222> (4)  
 <223> Xaa in position 4 is Ala or Gly  
  
 <220>  
 <221> VARIANT  
 <222> (5)  
 <223> Xaa in position 5 is Ala or Thr  
  
 <220>  
 <221> VARIANT  
 <222> (6)  
 <223> Xaa in position 6 is Phe or naphthylalanine  
  
 <220>  
 <221> VARIANT  
 <222> (7)  
 <223> Xaa in position 7 is Thr or Ser  
  
 <220>  
 <221> VARIANT  
 <222> (8)  
 <223> Xaa in position 8 is Ala, Ser or Thr  
  
 <220>  
 <221> VARIANT  
 <222> (9)  
 <223> Xaa in position 9 is Ala, Asp or Glu  
  
 <220>  
 <221> VARIANT  
 <222> (10)  
 <223> Xaa in position 10 is Ala, Leu or pentylglycine  
  
 <220>  
 <221> VARIANT  
 <222> (11)  
 <223> Xaa in position 11 is Ala or Ser  
  
 <220>  
 <221> VARIANT  
 <222> (12)  
 <223> Xaa in position 12 is Ala or Lys  
  
 <220>  
 <221> VARIANT  
 <222> (13)  
 <223> Xaa in position 13 is Ala or Gln  
  
 <220>  
 <221> VARIANT

<222> (14)  
<223> Xaa in position 14 is Ala, Leu, Met or  
    pentylglycine

<220>  
<221> VARIANT  
<222> (15)..(17)  
<223> Xaa in positions 15, 16 & 17 is Ala or Glu

<220>  
<221> VARIANT  
<222> (19)  
<223> Xaa in position 19 is Ala or Val

<220>  
<221> VARIANT  
<222> (20)  
<223> Xaa in position 20 is Ala or Arg

<220>  
<221> VARIANT  
<222> (21)  
<223> Xaa in position 21 is Ala or Leu

<220>  
<221> VARIANT  
<222> (22)  
<223> Xaa at position 22 is Phe or naphthylalanine

<220>  
<221> VARIANT  
<222> (23)  
<223> Xaa at position 23 is Ile, Val or  
    tert-butylglycine

<220>  
<221> VARIANT  
<222> (24)  
<223> Xaa at position 24 is Ala, Glu or Asp

<220>  
<221> VARIANT  
<222> (25)  
<223> Xaa at position 25 is Ala, Trp or Phe

<220>  
<221> VARIANT  
<222> (26)  
<223> Xaa at position 26 is Ala or Leu

<220>  
<221> VARIANT  
<222> (27)  
<223> Xaa at position 27 is Ala or Lys

<220>

<221> VARIANT

<222> (28)

<223> Xaa at position 28 is Ala or Asn

<220>

<221> VARIANT

<222> (29)

<223> Xaa at position 29 is OH, NH<sub>2</sub>, Gly-OH, Gly-NH<sub>2</sub>,  
Gly-Gly-OH, Gly-Gly-NH<sub>2</sub> and further as indicated  
in the specification

<400> 44

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

10

15

Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20

25

<210> 45

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Construct

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 is His, Arg, Tyr or  
4-imidazopropionyl

<220>

<221> VARIANT

<222> (2)

<223> Xaa in position 2 is Ser, Gly, Ala or Thr

<220>

<221> VARIANT

<222> (3)

<223> Xaa in position 3 is Asp or Glu

<220>

<221> VARIANT

<222> (5)

<223> Xaa in position 5 is Ala or Thr

<220>

<221> VARIANT

<222> (6)

<223> Xaa in position 6 is Ala, Phe, Tyr or  
naphthylalanine

<220>

<221> VARIANT

<222> (7)  
 <223> Xaa in position 8 is Thr or Ser  
  
 <220>  
 <221> VARIANT  
 <222> (8)  
 <223> Xaa in position 8 is Ala, Ser or Thr  
  
 <220>  
 <221> VARIANT  
 <222> (9)  
 <223> Xaa in position 9 is Asp or Glu  
  
 <220>  
 <221> VARIANT  
 <222> (10)  
 <223> Xaa in position 10 is Ala, Leu, Ile, Val,  
 pentylglycine or Met  
  
 <220>  
 <221> VARIANT  
 <222> (11)  
 <223> Xaa in position 11 is Ala or Ser  
  
 <220>  
 <221> VARIANT  
 <222> (12)  
 <223> Xaa in position 12 is Ala or Lys  
  
 <220>  
 <221> VARIANT  
 <222> (13)  
 <223> Xaa in position 13 is Ala or Gln  
  
 <220>  
 <221> VARIANT  
 <222> (14)  
 <223> Xaa in position 14 is Ala, Leu, Ile,  
 pentylglycine, Val or Met  
  
 <220>  
 <221> VARIANT  
 <222> (15)..(17)  
 <223> Xaa in positions 15, 16 & 17 is Ala or Glu  
  
 <220>  
 <221> VARIANT  
 <222> (19)  
 <223> Xaa in position 19 is Ala or Val  
  
 <220>  
 <221> VARIANT  
 <222> (20)  
 <223> Xaa in position 20 is Ala or Arg  
  
 <220>  
 <221> VARIANT

<222> (21)  
 <223> Xaa in position 21 is Ala, Leu, Lys-NH3-R where R  
 is Lys, Arg, C1-C10 straight chain or branched  
 alkanoyl or cycloalkanoyl

<220>  
 <221> VARIANT  
 <222> (22)  
 <223> Xaa in position 22 is Phe, Tyr, or naphthylalanine

<220>  
 <221> VARIANT  
 <222> (23)  
 <223> Xaa at position 23 is Ile, Val, Leu, pentylglycine,  
 tert-butylglycine or Met

<220>  
 <221> VARIANT  
 <222> (24)  
 <223> Xaa at position 24 is Ala, Glu or Asp

<220>  
 <221> VARIANT  
 <222> (25)  
 <223> Xaa at position 25 is Ala, Trp, Phe, Tyr or  
 naphthylalanine

<220>  
 <221> VARIANT  
 <222> (26)  
 <223> Xaa at position 26 is Ala or Leu

<220>  
 <221> VARIANT  
 <222> (27)  
 <223> Xaa at position 27 is Lys-Asn, Asn-Lys,  
 Lys-NH3-R-Asn, Asn-Lys-NH3-R, Lys-NH3-R-Ala,  
 Ala-Lys-NH3-R, where R is Lys, Arg, C1-C10 straight  
 chain or branched alkanoyl or cycloalkylalkanoyl

<220>  
 <221> VARIANT  
 <222> (28)  
 <223> Xaa at position 28 is OH, NH2, Gly-OH, Gly-NH2,  
 Gly-Gly-OH, Gly-Gly-NH2 and further as indicated  
 in the specification

<400> 45  
 Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15  
 Xaa Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25

<210> 46  
 <211> 28  
 <212> PRT



<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Construct

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 is His, Arg, Tyr, Ala, norvaline, Val norleucine, or 4-imidazopropionyl

<220>

<221> VARIANT

<222> (2)

<223> Xaa in position 2 is Ser, Gly, Ala, or Thr

<220>

<221> VARIANT

<222> (3)

<223> Xaa in position 3 is Ala, Asp, or Glu

<220>

<221> VARIANT

<222> (4)

<223> Xaa in position 4 is Ala, norvaline, Val, norleucine or Gly

<220>

<221> VARIANT

<222> (5)

<223> Xaa in position 5 is Ala or Thr

<220>

<221> VARIANT

<222> (6)

<223> Xaa in position 6 is Phe, Tyr or naphthylalanine

<220>

<221> VARIANT

<222> (7)

<223> Xaa in position 7 is Thr or Ser

<220>

<221> VARIANT

<222> (8)

<223> Xaa in position 8 is Ala, Ser or Thr

<220>

<221> VARIANT

<222> (9)

<223> Xaa in position 9 is Ala, Norvaline, Val, Norleucine, Asp or Glu

<220>

<221> VARIANT

<222> (10)  
 <223> Xaa in position 10 is Ala, Leu, Ile, Val  
 pentylglycine or Met  
  
 <220>  
 <221> VARIANT  
 <222> (11)  
 <223> Xaa in position 11 is Ala or Ser  
  
 <220>  
 <221> VARIANT  
 <222> (12)  
 <223> Xaa in position 12 is Ala or Lys  
  
 <220>  
 <221> VARIANT  
 <222> (13)  
 <223> Xaa in position 13 is Ala or Gln  
  
 <220>  
 <221> VARIANT  
 <222> (14)  
 <223> Xaa in position 14 is Ala, Leu, Ile, pentylglycine  
 Val or Met  
  
 <220>  
 <221> VARIANT  
 <222> (15)..(17)  
 <223> Xaa in positions 15, 16 & 17 stands for Ala or Glu  
  
 <220>  
 <221> VARIANT  
 <222> (19)  
 <223> Xaa in position 19 is Ala or Val  
  
 <220>  
 <221> VARIANT  
 <222> (20)  
 <223> Xaa in position 20 is Ala or Arg  
  
 <220>  
 <221> VARIANT  
 <222> (21)  
 <223> Xaa in position 21 is Ala, Leu or Lys-NH<sub>3</sub> where R  
 is Lys, Arg, C1-C10 straight chain or branched  
 alkanoyl or cycloalyleyl-alkanoyl  
  
 <220>  
 <221> VARIANT  
 <222> (22)  
 <223> Xaa at position 22 is Phe, Tyr or naphthylalanine  
  
 <220>  
 <221> VARIANT  
 <222> (23)  
 <223> Xaa at position 23 is Ile, Val, Leu, pentylglycine,  
 tert-butylglycine or Met

<220>  
 <221> VARIANT  
 <222> (24)  
 <223> Xaa at position 24 is Ala, Glu or Asp

<220>  
 <221> VARIANT  
 <222> (25)  
 <223> Xaa at position 25 is Ala, Trp, Phe, Tyr  
 or naphthylalanine

<220>  
 <221> VARIANT  
 <222> (26)  
 <223> Xaa at position 26 is Ala or Leu

<220>  
 <221> VARIANT  
 <222> (27)  
 <223> Xaa at position 27 is Lys-Asn, Asn-Lys,  
 Lys-NH3-R-Asn, Asn-Lys-NH3-R, Lys-NH3-R-Ala,  
 Ala-Lys-NH3-R, where R is Lys, Arg, C1-C10 straight  
 chain or branched alkanoyl or cycloalkylalkanoyl

<220>  
 <221> VARIANT  
 <222> (28)  
 <223> Xaa at position 28 is OH, NH2, Gly-OH, Gly-NH2,  
 Gly-Gly-OH, Gly-Gly-NH2 and further as indicated  
 in the specification

<400> 46  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25

<210> 47  
 <211> 40  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Construct

<220>  
 <221> VARIANT  
 <222> (1)  
 <223> Xaa in position 1 is His, Arg or Thr

<220>  
 <221> VARIANT  
 <222> (2)  
 <223> Xaa in position 2 is Ser, Gly, Ala, or Thr

<220>  
 <221> VARIANT  
 <222> (3)  
 <223> Xaa in position 3 is Asp or Glu

<220>  
 <221> VARIANT  
 <222> (6)  
 <223> Xaa in position 6 is Phe, Tyr or naphthalanine

<220>  
 <221> VARIANT  
 <222> (7)  
 <223> Xaa in position 7 is Thr or Ser

<220>  
 <221> VARIANT  
 <222> (8)  
 <223> Xaa in position 8 is Ser or Thr

<220>  
 <221> VARIANT  
 <222> (9)  
 <223> Xaa in position 9 is Asp or Glu

<220>  
 <221> VARIANT  
 <222> (10)  
 <223> Xaa in position 10 is Leu, Ile, Val, pentylglycine  
 or Met

<220>  
 <221> VARIANT  
 <222> (14)  
 <223> Xaa at position 14 is Leu, Ile, pentylglycine,  
 Val or Met

<220>  
 <221> VARIANT  
 <222> (22)  
 <223> Xaa in position 22 is Phe, Tyr or naphthylalanine

<220>  
 <221> VARIANT  
 <222> (23)  
 <223> Xaa in position 23 is Ile, Val, Leu,  
 pentylglycine, tert-butylglycine or Met

<220>  
 <221> VARIANT  
 <222> (24)  
 <223> Xaa in position 24 is Glu or Asp

<220>  
 <221> VARIANT  
 <222> (25)

<223> Xaa in position 25 is Trp, Phe, Tyr or naphthylalanine

<220>

<221> VARIANT

<222> (31)

<223> Xaa in position 31 is independently Pro, homoproline, 3-hydroxyproline, 4-hydroxyproline, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine

<220>

<221> VARIANT

<222> (36)..(38)

<223> Xaa in positions 36, 37 & 38 is independently Pro, homoproline, 3-hydroxyproline, 4-hydroxyproline, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine

<220>

<221> VARIANT

<222> (39)

<223> Xaa in position 39 is Ser, Thr or Tyr

<220>

<221> VARIANT

<222> (40)

<223> Xaa in position 40 is -OH or -NH<sub>3</sub>, with the proviso that the compound does not have the formula of either SEQ. ID. NOS. 1 or 2

<400> 47

Xaa	Xaa	Xaa	Gly	Thr	Xaa	Xaa	Xaa	Xaa	Xaa	Ser	Lys	Gln	Xaa	Glu	Glu
1				5				10						15	

Glu	Ala	Val	Arg	Leu	Xaa	Xaa	Xaa	Xaa	Leu	Lys	Asn	Gly	Gly	Xaa	Ser
			20					25						30	

Ser	Gly	Ala	Xaa	Xaa	Xaa	Xaa	Xaa
		35				40	

<210> 48

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Construct

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 is His, Arg, Tyr or 4-imidazopropionyl

<220>

<221> VARIANT  
 <222> (2)  
 <223> Xaa in position 2 is Ser, Gly, Ala or Thr  
  
 <220>  
 <221> VARIANT  
 <222> (3)  
 <223> Xaa in position 3 is Asp or Glu  
  
 <220>  
 <221> VARIANT  
 <222> (6)  
 <223> Xaa in position 6 is Phe, Tyr or naphthylalanine  
  
 <220>  
 <221> VARIANT  
 <222> (7)..(8)  
 <223> Xaa in positions 7 & 8 is Thr or Ser  
  
 <220>  
 <221> VARIANT  
 <222> (9)  
 <223> Xaa in position 9 is Asp or Glu  
  
 <220>  
 <221> VARIANT  
 <222> (10)  
 <223> Xaa in position 10 is Leu, Ile, Val, pentylglycine  
           or Met  
  
 <220>  
 <221> VARIANT  
 <222> (14)  
 <223> Xaa at position 14 is Leu, Ile, pentylglycine,  
 Val or Met  
  
 <220>  
 <221> VARIANT  
 <222> (22)  
 <223> Xaa in position 22 is Phe, Tyr or naphthylalanine  
  
 <220>  
 <221> VARIANT  
 <222> (23)  
 <223> Xaa in position 23 is Ile, Val, Lu, pentylglycine,  
           tert-butylglycine or Met  
  
 <220>  
 <221> VARIANT  
 <222> (24)  
 <223> Xaa in position 24 is Glu or Asp  
  
 <220>  
 <221> VARIANT  
 <222> (25)  
 <223> Xaa in position 25 is Trp, Phe, Tyr, or

naphthylalanine

<220>

<221> VARIANT

<222> (27)

<223> Xaa in position 27 is Lys-Asn-Lys, Lys-NH3-R-Asn, Asn-Lys-NH3-R where R is Lys, Arg, C1-C10 straight chain or branched alkanoyl or cycloalkylalkanoyl

<220>

<221> VARIANT

<222> (30)

<223> Xaa in position is independently Pro, homoproline, 3-hydroxyproline, 4-hydroxyproline, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine

<220>

<221> VARIANT

<222> (35)..(39)

<223> Xaa in positions 35-39 is independently Pro, homoproline, 3-hydroxyproline, 4-hydroxyproline, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine

<220>

<221> VARIANT

<222> (40)

<223> Xaa in position 40 is -OH or NH2, with the proviso that the compound does not have the formula of either SEQ. ID. NOS. 1 or 2

<400> 48

Xaa	Xaa	Xaa	Gly	Thr	Xaa	Xaa	Xaa	Xaa	Xaa	Ser	Lys	Gln	Xaa	Glu	Glu
1					5				10					15	

Glu	Ala	Val	Arg	Leu	Xaa	Xaa	Xaa	Xaa	Leu	Xaa	Gly	Gly	Xaa	Ser	Ser
			20					25					30		

Gly	Ala	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		35				40	

<210> 49

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> (30)

<223> Gly in position 30 is amidated

<400> 49

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly  
20 25 30

<210> 50  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 50  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 51  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 51  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 52  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence



<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 52

His Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 53

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 53

His Gly Glu Gly Ala Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 54

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 54

His Gly Glu Gly Thr Ala Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 55

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 55

His	Gly	Glu	Gly	Thr	Phe	Thr	Ala	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10					15		

Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn
			20				25				

<210> 56

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 56

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Ala	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10					15		

Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn
			20				25				

<210> 57

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 57

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ala	Lys	Gln	Leu	Glu	Glu
1				5				10					15		

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 58  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 58  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 59  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 59  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 60  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)

<223> Asn in position 28 is amidated

<400> 60

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 61

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 61

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Ala Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 62

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 62

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Ala  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 63

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 63

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10					15	

Ala	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn
			20					25			

<210> 64

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 64

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10					15	

Glu	Ala	Ala	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn
			20					25			

<210> 65

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 65

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10					15	

Glu	Ala	Val	Ala	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn
			20					25			

<210> 66  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 66  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Ala Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 67  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 67  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Ala Phe Leu Lys Asn  
20 25

<210> 68  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 68

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn  
20 25

<210> 69  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 69  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Ala Lys Asn  
20 25

<210> 70  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 70  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Ala Asn  
20 25

<210> 71  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Ala in position 28 is amidated

<400> 71

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu

1

5

10

15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Ala

20

25

<210> 72

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (38)

<223> Pro in position 38 is amidated

<400> 72

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu

1

5

10

15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser

20

25

30

Ser Gly Ala Pro Pro Pro

35

<210> 73

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (38)

<223> Pro in position 38 is amidated

<400> 73

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu

1

5

10

15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser

20

25

30

Ser Gly Ala Pro Pro Pro



<210> 74  
 <211> 37  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> (37)  
 <223> Pro in position 37 is amidated

<400> 74  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
 20 25 30

Ser Gly Ala Pro Pro  
 35

<210> 75  
 <211> 37  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> (37)  
 <223> Pro in position 37 is amidated

<400> 75  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
 20 25 30

Ser Gly Ala Pro Pro  
 35

<210> 76  
 <211> 36  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic

Amino Acid Sequence

<220>

<221> AMIDATION

<222> (36)

<223> Pro in position 36 is amidated

<400> 76

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro  
35

<210> 77

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (36)

<223> Pro in position 36 is amidated

<400> 77

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro  
35

<210> 78

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (35)

<223> Ala in position 35 is amidated

<400> 78

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu

1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
                     20                      25                      30

Ser Gly Ala  
                     35

<210> 79  
 <211> 35  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
                     Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> (35)  
 <223> Ala in position 35 is amidated

<400> 79  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
   1                      5                      10                      15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
                     20                      25                      30

Ser Gly Ala  
                     35

<210> 80  
 <211> 34  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
                     Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> (34)  
 <223> Gly in position 34 is amidated

<400> 80  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
   1                      5                      10                      15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
                     20                      25                      30

Ser Gly

<210> 81

<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (34)  
<223> Gly in position 34 is amidated

<400> 81  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly

<210> 82  
<211> 33  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (33)  
<223> Ser in position 33 is amidated

<400> 82  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser

<210> 83  
<211> 33  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (33)

<223> Ser in position 33 is amidated

<400> 83

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser

<210> 84

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (32)

<223> Ser in position 32 is amidated

<400> 84

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

<210> 85

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (32)

<223> Ser in position 32 is amidated

<400> 85

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

<210> 86

<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (31)  
<223> Pro in position 31 is amidated

<400> 86  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro  
20 25 30

<210> 87  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (31)  
<223> Pro in position 31 is amidated

<400> 87  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro  
20 25 30

<210> 88  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (30)  
<223> Gly in position 30 is amidated

<400> 88  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu

1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly  
20 25 30

<210> 89  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (29)  
<223> Gly in position 29 is amidated

<400> 89  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly  
20 25

<210> 90  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (29)  
<223> Gly in position 29 is amidated

<400> 90  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly  
20 25

<210> 91  
<211> 38  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT  
<222> (31)  
<223> Xaa in position 31 is tPro

<220>  
<221> VARIANT  
<222> (36)..(38)  
<223> Xaa in positions 36-38 is tPro

<220>  
<221> AMIDATION  
<222> (38)  
<223> tPro in position 38 is amidated

<400> 91  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
20 25 30

Ser Gly Ala Xaa Xaa Xaa  
35

<210> 92  
<211> 38  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (36)...(38)  
<223> Xaa in positions 36-38 is tPro

<220>  
<221> AMIDATION  
<222> (38)  
<223> tPro in position 38 is amidated

<400> 92  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Xaa Xaa Xaa  
35

<210> 93  
<211> 37  
<212> PRT



<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (31)

<223> Xaa in position 31 stands for Nme

<220>

<221> AMIDATION

<222> (37)

<223> Pro in position 37 is amidated

<400> 93

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10				15			

Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Xaa	Ser
		20					25					30			

Ser	Gly	Ala	Pro	Pro
		35		

<210> 94

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (31)

<223> Xaa in position 31 is Nme

<220>

<221> VARIANT

<222> (36)..(37)

<223> Xaa in positions 36-37 is Nme

<220>

<221> AMIDATION

<222> (37)

<223> Nme in position 37 is amidated

<400> 94

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10				15			

Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Xaa	Ser
		20					25					30			

Ser Gly Ala Xaa Xaa  
35

<210> 95  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (31)  
<223> Xaa in position 31 stands for hPro

<220>  
<221> VARIANT  
<222> (36)..(37)  
<223> Xaa in positions 36-37 stands for hPro

<220>  
<221> AMIDATION  
<222> (37)  
<223> hPro in position 37 is amidated

<400> 95  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
20 25 30

Ser Gly Ala Xaa Xaa  
35

<210> 96  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (31)  
<223> Xaa in position 31 stands for hPro

<220>  
<221> VARIANT  
<222> (36)  
<223> Xaa in position 36 stands for hPro

<220>  
<221> AMIDATION  
<222> (36)  
<223> hPro in position 36 is amidated

<400> 96  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
20 25 30  
Ser Gly Ala Xaa  
35

<210> 97  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (35)  
<223> Ala in position 35 is amidated

<400> 97  
Arg Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala  
35

<210> 98  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (30)  
<223> Gly in position 30 is amidated

<400> 98  
His Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly  
 20 25 30

<210> 99  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> (6)  
 <223> Xaa in position 6 stands for naph

<220>  
 <221> AMIDATION  
 <222> (28)  
 <223> Asn in position 28 is amidated

<400> 99  
 His Gly Glu Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

<210> 100  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> (28)  
 <223> Asn in position 28 is amidated

<400> 100  
 His Gly Glu Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
 20 25

<210> 101  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic

Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 101

His Gly Glu Gly Thr Phe Ser Thr Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 102

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 102

His Gly Glu Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Met Ala Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 103

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (10)

<223> Xaa in position 10 stands for pGly

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 103

His Gly Glu Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 104  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (22)  
<223> Xaa in position 22 stands for naph

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 104  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Phe Leu Lys Asn  
20 25

<210> 105  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (23)  
<223> Xaa in position 23 stands for tBug

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 105  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Xaa Glu Trp Leu Lys Asn  
20 25

<210> 106

<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 106  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Asp Phe Leu Lys Asn  
20 25

<210> 107  
<211> 33  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (33)  
<223> Ser in position 33 is amidated

<400> 107  
His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser

<210> 108  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (29)  
<223> Gly in position 29 is amidated

<400> 108

His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly  
20 25

<210> 109

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (31)

<223> Xaa in position 31 stands for hPro

<220>

<221> VARIANT

<222> (36)..(37)

<223> Xaa in positions 36-37 stands for hPro

<220>

<221> AMIDATION

<222> (37)

<223> hPro in position 37 is amidated

<400> 109

His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
20 25 30

Ser Gly Ala Xaa Xaa  
35

<210> 110

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly



<220>  
<221> VARIANT  
<222> (26)  
<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> (27)  
<223> Asn in position 27 is amidated

<400> 110  
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu  
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn  
20 25

<210> 111  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (1)  
<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>  
<221> VARIANT  
<222> (26)  
<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> (27)  
<223> Asn in position 27 is amidated

<400> 111  
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu  
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn  
20 25

<210> 112  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (1)  
<223> Xaa in position 1 stands for  
4-Imidazolypropionyl-Gly

<220>  
<221> VARIANT  
<222> (26)  
<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> (29)  
<223> Gly in position 29 is amidated

<400> 112  
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu  
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn Gly Gly  
20 25

<210> 113  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (1)  
<223> Xaa in position 1 stands for  
4-Imidazolypropionyl-Gly

<220>  
<221> VARIANT  
<222> (26)  
<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> (29)  
<223> Gly in position 29 is amidated

<400> 113  
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu  
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn Gly Gly  
20 25

<210> 114

<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (1)  
<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>  
<221> VARIANT  
<222> (27)  
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> (27)  
<223> Lys-NH(epsilon) octanoyl in position 27 is amidated

<400> 114  
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu  
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa  
20 25

<210> 115  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (1)  
<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>  
<221> VARIANT  
<222> (27)  
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> (27)  
<223> Lys-NH(epsilon) octanoyl in position 27 is amidated

<400> 115

Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu  
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa  
20 25

<210> 116  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (1)  
<223> Xaa in position 1 stands for  
4-Imidazolypropionyl-Gly

<220>  
<221> VARIANT  
<222> (27)  
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> (29)  
<223> Gly in position 29 is amidated

<400> 116  
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu  
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa Gly Gly  
20 25

<210> 117  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (1)  
<223> Xaa in position 1 stands for  
4-Imidazolypropionyl-Gly

<220>  
<221> VARIANT  
<222> (27)  
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> (29)  
<223> Gly in position 29 is amidated

<400> 117  
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu  
1 5 10 15  
Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa Gly Gly  
20 25

<210> 118  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 118  
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 119  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 119  
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 120  
<211> 28

<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 120

His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 121

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 121

His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 122

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 122

Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 123  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 123  
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 124  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 124  
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 125  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 125

His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 126

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 126

His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 127

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 127

Ala Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 128

<211> 28

<212> PRT

<213> Artificial Sequence



<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 128

Ala Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 129

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 129

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 130

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 130

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 131  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 131  
Ala Gly Asp Gly Ala Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 132  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 132  
Ala Gly Asp Gly Ala Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 133  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (6)  
<223> Xaa in position 6 stands for Nala

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 133

Ala Gly Asp Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 134

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (6)

<223> Xaa in position 6 stands for Nala

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 134

Ala Gly Asp Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 135

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 135

Ala Gly Asp Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn

<210> 136  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> (28)  
 <223> Asn in position 28 is amidated

<400> 136  
 Ala Gly Asp Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

<210> 137  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> (28)  
 <223> Asn in position 28 is amidated

<400> 137  
 Ala Gly Asp Gly Thr Phe Thr Ala Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
 20 25

<210> 138  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> (28)  
 <223> Asn in position 28 is amidated

<400> 138

Ala Gly Asp Gly Thr Phe Thr Ala Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 139

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 139

Ala Gly Asp Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 140

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 140

Ala Gly Asp Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 141

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

# Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 141

Ala Gly Asp Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 142

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 142

Ala Gly Asp Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 143

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 143

Ala Gly Asp Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 144

<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 144  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 145  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (10)  
<223> Xaa in position 10 stands for Pgly

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 145  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 146  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT

<222> (10)

<223> Xaa in position 10 stands for Pgly

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 146

Ala Gly Asp Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 147

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 147

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ala Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 148

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 148

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ala Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25



<210> 149  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 149  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 150  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 150  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 151  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 151

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 152  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 152  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 153  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 153  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 154  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 154

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 155  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (14)  
<223> Xaa in position 14 stands for pGly

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 155

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 156  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (14)  
<223> Xaa in position 14 stands for pGly

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 156

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 157

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 157

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Ala Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 158

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 158

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Ala Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 159

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 159

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Ala  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 160

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 160

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Ala  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 161

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 161

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Ala Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 162

<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 162

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Ala Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 163

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 163

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Ala Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 164

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 164

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu

1

5

10

15

Glu Ala Ala Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

&lt;210&gt; 165

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

&lt;220&gt;

&lt;221&gt; AMIDATION

&lt;222&gt; (28)

&lt;223&gt; Asn in position 28 is amidated

&lt;400&gt; 165

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Ala Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

&lt;210&gt; 166

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

&lt;220&gt;

&lt;221&gt; AMIDATION

&lt;222&gt; (28)

&lt;223&gt; Asn in position 28 is amidated

&lt;400&gt; 166

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Ala Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

&lt;210&gt; 167

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

&lt;220&gt;

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 167

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Ala Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 168

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence.

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 168

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Ala Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 169

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (22)

<223> Xaa in position 22 stands for Nala

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 169

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Trp Leu Lys Asn  
20 25



<210> 170  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (22)  
<223> Xaa in position 22 stands for Nala

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 170  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Phe Leu Lys Asn  
20 25

<210> 171  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 171  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Val Glu Trp Leu Lys Asn  
20 25

<210> 172  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> (28)  
 <223> Asn in position 28 is amidated  
  
 <400> 172  
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15  
  
 Glu Ala Val Arg Leu Phe Val Glu Phe Leu Lys Asn  
 20 25  
  
 <210> 173  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence  
  
 <220>  
 <221> VARIANT  
 <222> (23)  
 <223> Xaa in position 23 stands for tGly  
  
 <220>  
 <221> AMIDATION  
 <222> (28)  
 <223> Asn in position 28 is amidated  
  
 <400> 173  
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
  
 Glu Ala Val Arg Leu Phe Xaa Glu Trp Leu Lys Asn  
 20 25  
  
 <210> 174  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence  
  
 <220>  
 <221> VARIANT  
 <222> (23)  
 <223> Xaa in position 23 stands for tGly  
  
 <220>  
 <221> AMIDATION  
 <222> (28)  
 <223> Asn in position 28 is amidated

<400> 174

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Xaa Glu Phe Leu Lys Asn  
20 25

<210> 175

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 175

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Asp Trp Leu Lys Asn  
20 25

<210> 176

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 176

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Asp Phe Leu Lys Asn  
20 25

<210> 177

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 177

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn  
20 25

<210> 178

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 178

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn  
20 25

<210> 179

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 179

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Ala Lys Asn  
20 25

<210> 180

<211> 28

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 180  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Ala Lys Asn  
20 25

<210> 181  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 181  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Ala Asn  
20 25

<210> 182  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 182  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Ala Asn  
20 25

<210> 183  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Ala in position 28 is amidated

<400> 183  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Ala  
20 25

<210> 184  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (28)  
<223> Ala in position 28 is amidated

<400> 184  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Ala  
20 25

<210> 185  
<211> 38  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION

<222> (38)

<223> Pro in position 38 is amidated

<400> 185

Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro  
35

<210> 186

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (38)

<223> Pro in position 38 is amidated

<400> 186

His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro  
35

<210> 187

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (37)

<223> Pro in position 37 is amidated

<400> 187

His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro  
35

<210> 188  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (36)  
<223> Pro in position 36 is amidated

<400> 188  
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro  
35

<210> 189  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (36)  
<223> Pro in position 36 is amidated

<400> 189  
Ala Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro  
35

<210> 190  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence



<220>

<221> AMIDATION

<222> (35)

<223> Ala in position 35 is amidated

<400> 190

Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala  
35

<210> 191

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (35)

<223> Ala in position 35 is amidated

<400> 191

His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala  
35

<210> 192

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (34)

<223> Gly in position 34 is amidated

<400> 192

His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
 20 25 30

Ser Gly

<210> 193  
 <211> 33  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> (33)  
 <223> Ser in position 33 is amidated

<400> 193  
 His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
 20 25 30

Ser

<210> 194  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> (32)  
 <223> Ser in position 32 is amidated

<400> 194  
 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
 20 25 30

<210> 195  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (32)

<223> Ser in position 32 is amidated

<400> 195

His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

<210> 196

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (31)

<223> Pro in position 31 is amidated

<400> 196

His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro  
20 25 30

<210> 197

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (30)

<223> Gly in position 30 is amidated

<400> 197

His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly  
20 25 30

<210> 198  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (29)  
<223> Gly in position 29 is amidated

<400> 198  
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly  
20 25

<210> 199  
<211> 38  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (31)  
<223> Xaa in position 31 stands for tPro

<220>  
<221> VARIANT  
<222> (36)..(38)  
<223> Xaa in positions 36-38 stands for tPro

<220>  
<221> AMIDATION  
<222> (38)  
<223> tPro in position 38 is amidated

<400> 199  
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
20 25 30  
Ser Gly Ala Xaa Xaa Xaa  
35

<210> 200  
<211> 38  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (36)..(38)  
<223> Xaa in positions 36-38 stands for tPro

<220>  
<221> AMIDATION  
<222> (38)  
<223> tPro in position 38 is amidated

<400> 200  
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Xaa Xaa Xaa  
35

<210> 201  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (31)  
<223> Xaa in position 31 stands for Nme

<220>  
<221> VARIANT  
<222> (36)..(37)  
<223> Xaa in positions 36-37 stands for Nme

<220>  
<221> AMIDATION  
<222> (37)  
<223> Nme in position 37 is amidated

<400> 201  
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
20 25 30

Ser Gly Ala Xaa Xaa  
35

<210> 202  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (31)  
<223> Xaa in position 31 stands for hPro

<220>  
<221> VARIANT  
<222> (36)  
<223> Xaa in position 36 stands for hPro

<220>  
<221> AMIDATION  
<222> (36)  
<223> hPro in position 36 is amidated

<400> 202  
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
20 25 30

Ser Gly Ala Xaa  
35

<210> 203  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (35)  
<223> Ala in position 35 is amidated

<400> 203  
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala  
35

<210> 204  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (30)  
<223> Gly in position 30 is amidated

<400> 204  
His Gly Asp Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly  
20 25 30

<210> 205  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> (39)  
<223> Ser in position 39 is amidated

<400> 205  
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 206  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (39)

<223> Ser in position 39 is amidated

<400> 206

Ala Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 207

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> (26)

<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (27)

<223> Asn in position 27 is amidated

<400> 207

Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu Glu  
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn  
20 25

<210> 208

<211> 27

<212> PRT

<213> Artificial Sequence

<220>



<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> (26)

<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (27)

<223> Asn in position 27 is amidated

<400> 208

Xaa	Glu	Gly	Thr	Phe	Thr	Ser	Ala	Leu	Ser	Lys	Gln	Leu	Glu	Glu	Glu
1				5				10					15		

Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Xaa	Asn
			20					25		

<210> 209

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> (26)

<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (29)

<223> Gly in position 29 is amidated

<400> 209

Xaa	Glu	Gly	Thr	Phe	Thr	Ser	Ala	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu
1				5				10					15		

Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Xaa	Asn	Gly	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<210> 210  
 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> (1)  
 <223> Xaa in position 1 stands for  
 4-Imidazolylpropionyl-Gly

<220>  
 <221> VARIANT  
 <222> (26)  
 <223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>  
 <221> AMIDATION  
 <222> (29)  
 <223> Gly in position 29 is amidated

<400> 210  
 Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu Glu  
 1 5 10 15

Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn Gly Gly  
 20 25

<210> 211  
 <211> 27  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> (1)  
 <223> Xaa in position 1 stands for  
 4-Imidazolylpropionyl-Gly

<220>  
 <221> VARIANT  
 <222> (27)  
 <223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
 <221> AMIDATION  
 <222> (27)

<223> Lys-NH(epsilon) octanoyl in position 27 is amidated

<400> 211

Xaa	Glu	Gly	Thr	Phe	Thr	Ser	Ala	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu
1				5				10					15		

Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Asn	Xaa
			20					25		

<210> 212

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> (27)

<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (27)

<223> Lys-NH(epsilon) octanoyl

<400> 212

Xaa	Glu	Gly	Thr	Phe	Thr	Ser	Ala	Leu	Ser	Lys	Gln	Leu	Glu	Glu	Glu
1				5				10				15			

Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Asn	Xaa
			20					25		

<210> 213

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> (27)

<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (29)

<223> Gly in position 29 is amidated

<400> 213

Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu Glu  
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa Gly Gly  
20 25

<210> 214

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> (27)

<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (29)

<223> Gly in position 29 is amidated

<400> 214

Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu Glu  
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa Gly Gly  
20 25

<210> 215

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (27)  
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 215  
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn  
20 25

<210> 216  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (27)  
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> (28)  
<223> Asn in position 28 is amidated

<400> 216  
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn  
20 25

<210> 217  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> VARIANT  
<222> (27)  
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
 <221> AMIDATION  
 <222> (30)  
 <223> Gly in position 30 is amidated  
  
 <400> 217  
 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn Gly Gly  
 20 25 30  
  
 <210> 218  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence  
  
 <220>  
 <221> VARIANT  
 <222> (27)  
 <223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl  
  
 <220>  
 <221> AMIDATION  
 <222> (30)  
 <223> Gly in position 30 is amidated  
  
 <400> 218  
 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15  
  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn Gly Gly  
 20 25 30  
  
 <210> 219  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
 Amino Acid Sequence  
  
 <220>  
 <221> VARIANT  
 <222> (28)  
 <223> Xaa in position 28 stands for Lys-NH(epsilon) octanoyl  
  
 <220>  
 <221> AMIDATION  
 <222> (28)  
 <223> Lys-NH(epsilon) octanoyl in position 28 is amidated

<400> 219

Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa  
20 25

<210> 220

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (28)

<223> Xaa in position 28 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (28)

<223> Lys-NH(epsilon) octanoyl in position 28 is amidated

<400> 220

Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa  
20 25

<210> 221

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> VARIANT

<222> (28)

<223> Xaa in position 28 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (30)

<223> Gly in position 30 is amidated

<400> 221

Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa Gly Gly

20

25

30

&lt;210&gt; 222

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (28)

&lt;223&gt; Xaa in position 28 stands for Lys-NH(epsilon) octanoyl

&lt;220&gt;

&lt;221&gt; AMIDATION

&lt;222&gt; (30)

&lt;223&gt; Gly in position 30 is amidated

&lt;400&gt; 222

Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10				15		

Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Asn	Xaa	Gly	Gly
			20				25					30	

&lt;210&gt; 223

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (12)

&lt;223&gt; Lys-PEG

&lt;220&gt;

&lt;221&gt; AMIDATION

&lt;222&gt; (39)

&lt;223&gt; Ser in position 39 is amidated

&lt;400&gt; 223

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5					10				15		

Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Pro	Ser
			20				25					30			

Ser	Gly	Ala	Pro	Pro	Pro	Ser
			35			



<210> 224  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> (27)  
<223> Lys-PEG

<220>  
<221> AMIDATION  
<222> (39)  
<223> Ser in position 39 is amidated

<400> 224  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 225  
<211> 39  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> (2)  
<223> Lys-PEG

<220>  
<221> AMIDATION  
<222> (39)  
<223> Ser in position 39 is amidated

<400> 225  
His Lys Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 226  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> (5)  
<223> Lys-PEG

<220>  
<221> AMIDATION  
<222> (39)  
<223> Ser in position 39 is amidated

<400> 226  
His Gly Glu Gly Lys Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 227  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> (8)  
<223> Lys-PEG

<220>  
<221> AMIDATION  
<222> (39)  
<223> Ser in position 39 is amidated

<400> 227  
His Gly Glu Gly Thr Phe Thr Lys Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 228  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> (10)  
<223> Lys-PEG

<220>  
<221> AMIDATION  
<222> (39)  
<223> Ser in position 39 is amidated

<400> 228  
His Gly Glu Gly Thr Phe Thr Ser Asp Lys Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 229  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> (11)  
<223> Lys-PEG

<220>  
<221> AMIDATION  
<222> (39)  
<223> Ser in position 39 is amidated

<400> 229

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Lys Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 230  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> (13)  
<223> Lys-PEG

<220>  
<221> AMIDATION  
<222> (39)  
<223> Ser in position 39 is amidated

<400> 230  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Lys Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 231  
<211> 39  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> (16)  
<223> Lys-PEG

<220>  
<221> AMIDATION  
<222> (39)

<223> Ser in position 39 is amidated

<400> 231

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Lys  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 232

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> MOD\_RES

<222> (17)

<223> Lys-PEG

<220>

<221> AMIDATION

<222> (39)

<223> Ser in position 39 is amidated

<400> 232

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Lys Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 233

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> MOD\_RES

<222> (19)

<223> Lys-PEG

<220>  
<221> AMIDATION  
<222> (39)  
<223> Ser in position 39 is amidated

<400> 233  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Lys Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 234  
<211> 39  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> (21)  
<223> Lys-PEG

<220>  
<221> AMIDATION  
<222> (39)  
<223> Ser in position 39 is amidated

<400> 234  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Lys Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 235  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> MOD\_RES

<222> (24)  
<223> Lys-PEG

<220>  
<221> AMIDATION  
<222> (39)  
<223> Ser in position 39 is amidated

<400> 235  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Lys Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 236  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> (25)  
<223> Lys-PEG

<220>  
<221> AMIDATION  
<222> (39)  
<223> Ser in position 39 is amidated

<400> 236  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Lys Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 237  
<211> 39  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> (28)  
<223> Lys-PEG

<220>  
<221> AMIDATION  
<222> (39)  
<223> Ser in position 39 is amidated

<400> 237  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Lys Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 238  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> (29)  
<223> Lys-PEG

<220>  
<221> AMIDATION  
<222> (39)  
<223> Ser in position 39 is amidated

<400> 238  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Lys Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 239  
<211> 39  
<212> PRT  
<213> Artificial Sequence



<220>

<223> Description of Artificial Sequence: Synthetic  
Amino Acid Sequence

<220>

<221> MOD\_RES

<222> (30)

<223> Lys-PEG

<220>

<221> AMIDATION

<222> (39)

<223> Ser in position 39 is amidated

<400> 239

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Lys Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35